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The Centers For Disease Control And Prevention
The National Institute For Occupational Safety And Health
Present the Proceedings for

The International Conference on Occupational & Environmental Exposures of Skin to Chemicals: Science & Policy

September 8, 2002 - September 11, 2002

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This website may be updated occasionally for several months following the conference. For a short time, the website that was constructed before the conference may also be available: [Pre-conference Website](#).

Disclaimer: Co-sponsorship of the conference and workshop and posting of abstracts on a website by NIOSH does not constitute endorsement of the views expressed or recommendation for the use of any commercial product, commodity or service mentioned. The opinions and conclusions expressed are those of the authors and presenters and not necessarily those of NIOSH. Recommendations are not considered as final statements of NIOSH policy or of any agency or individual who was involved. These presentations are intended to be used in advancing knowledge needed to protect workers and the general public.

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General Information



Proceedings of the International Conference on Occupational & Environmental Exposures of Skin to Chemicals: Science & Policy

Hilton Crystal City September 8-11, 2002

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The National Institute for Occupational Safety and Health (NIOSH) co-sponsored this inaugural conference to bring together dermatologists, occupational hygienists, laboratory researchers, policy makers and others to focus on the science, knowledge gaps and policy opportunities related to occupational and environmental exposures of the skin to chemicals.

The site was the Hilton Crystal City at Ronald Reagan National Airport hotel. The main conference was followed by a one-day workshop focusing on specific research and public health opportunities for decreasing the burden of skin exposures to chemicals in both workplaces and the general environment.

Approximately 135 individuals attended. A second conference is expected in 2004.

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Agenda



Proceedings of the International Conference on Occupational & Environmental Exposures of Skin to Chemicals: Science & Policy

Hilton Crystal City September 8-11, 2002

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September 8, 2002

12:30 PM

5:00 Registration

PM

1:30 PM – Opening Session, including Welcome by Dr. Kathleen Rest,
2:00 PM Deputy Director of NIOSH

2:00 PM –

5:30 PM **Session 1 – Defining The Problem.**

Dermal exposure was framed within the context of both occupational and environmental scenarios. Overviews of the conceptual frameworks for dermal exposures and the range of toxic effects led into descriptions of the clinical burden and management of dermatitis.

Session Chair: Päivikki Susitaival

Plenary Titles and Speakers:

2:00 PM **The Role of Exposure in the Chain of Events from Sources to Health Outcomes: Dermal and Aggregate Exposures**, Matti Jantunen, PhD, KTL (National Public Health Institute), Kuopio, Finland ([Abstract](#))

2:30 PM **Systemic Toxicity from Skin Exposures**, James N. McDougal, PhD, Wright State University School of Medicine, Dayton, Ohio, USA ([Abstract](#))

3:00 PM **Allergic Contact Dermatitis (ACD): Physiology and Pathology**, David Basketter, DSc, MRCPPath, FIBiol, Unilever Colworth Laboratory, Sharnbrook, Bedford, UK ([Abstract](#))

3:30 PM Break

4:00 PM **Risk of Work-Related Dermatitis: Agents, Occupations and Host Factors**, Päivikki Susitaival, MD, PhD, North Karelia Central Hospital Dermatology Department, Joensuu, Finland ([Abstract](#))

4:30 PM **Diagnosis and Management of Occupational Skin Disease**, James S. Taylor, MD, Cleveland Clinic, Cleveland, Ohio, USA ([Abstract](#))

5:00 PM Introduction of [Posters](#)

Session Planning Committee:

Päivikki Susitaival, Coordinator

Elaine Cohen-Hubal

Boris Lushniak

James Taylor

2:00 PM –
8:30 PM [Posters](#) and [vendor exhibits](#)

6:30 PM –
8:30 PM Reception

September 9, 2002

8:00 AM –
5:00 PM Registration

8:00 AM –
6:00 PM [vendor exhibits](#)

8:30 AM –
12:00 PM **Session 2 – Health Effects And Hazard Identification**

Chemicals on the skin surface may penetrate the stratum corneum to reach viable tissue and then be absorbed by the blood. Such uptake can lead to health effects at the contact site and throughout the body. The talks in this session focused on several aspects of this process, including penetration, absorption, distribution and scientific approaches for associating risk with chemicals when exposure occurs by the dermal route.

Session Chairs: Pietro Sartorelli and Frank Gerberick

Plenary Titles and Speakers:

8:30 AM **Percutaneous Penetration Studies for Risk Assessment**, Faith Williams, PhD, The Medical School, University of Newcastle upon Tyne, Newcastle upon Tyne, UK ([Abstract](#))

9:00 AM **Factors Influencing Percutaneous Penetration in the Workplace and General Environment**, Howard Maibach, MD, Prof, Derm, University of California at San Francisco, San Francisco, California, USA ([Abstract](#))

9:30 AM **Theoretical Models of Percutaneous Absorption**, John Corish, BSc, MA, PhD and Dara Fitzpatrick, BSc, PhD, University of Dublin, Dublin, Ireland ([Abstract](#))

10:00 AM Break

10:30 AM **The Importance of Exposure and Potency in the Assessment of Skin Sensitization Risk**, Frank Gerberick, PhD, Procter and Gamble Co., Cincinnati, Ohio, USA ([Abstract](#))

11:00 AM **Criteria for Skin Notation in an International Perspective**, Jesper Bo Nielsen, PhD and Philippe Grandjean, MD, Institute of Public Health, University of Southern Denmark, Odense, Denmark ([Abstract](#))

11:30 AM Introduction of [Posters](#)

Session Planning Committee:

Pietro Sartorelli, Coordinator

Heinz Ahlers

Peter Elsner

Pat Engasser

Frank Gerberick

Gerald Kennedy

September 9, 2002

2:00 PM –

5:30 PM

Session 3 – Measuring And Predicting Exposures

This session included discussion of multiple aspects of dermal exposure assessment, including current issues concerning measurement and assessment of dermal exposures and the state of knowledge of the relation between metrics, measurement techniques, and models. Exposures to different elements, i.e., fluids (liquids, vapors), particles (soils, dusts, powders), and surface residues were aspects of all the presentations.

Session Chair: Leena Nylander-French

Plenary Titles and Speakers:

2:00 PM **Dermal Exposure Processes and Mechanisms: Implications for Exposure Sampling Methodology and Strategy**, Derk Brouwer, PhD, TNO Chemistry, Zeist, The Netherlands ([Abstract](#))

2:35 PM **Issues in Understanding Dermal Exposures Resulting from Contact with Contaminated Surfaces, Measuring Surface Contamination, and Characterizing Transfers**, Elaine A. Cohen-Hubal, PhD, US Environmental Protection Agency, Research Triangle Park, North Carolina, USA ([Abstract](#))

3:10 PM Introduction of [Posters](#)

3:30 PM Break

4:00 PM **Measuring Dermal Exposure: Practical and Scientific Considerations**, Alastair Robertson, BSc (Hons), PhD, Institute of Occupational Medicine, Edinburgh, UK ([Abstract](#))

4:35 PM **Predictive Models of Dermal Exposure**, John Kissel, PhD, PE, University of Washington, Seattle, Washington, USA ([Abstract](#))

5:10 PM Introduction of [Posters](#)

Session Planning Committee:

Leena Nylander-French, Coordinator

Mark Boeniger

Bob Curtis

Elaine Cohen-Hubal

Richard Fenske

Hans Marquart

James N. McDougal

8:00 PM –
9:00 PM *Planning for the Next Conference - Open Meeting*

September 10, 2002

8:00 AM –
4:00 PM [vendor exhibits](#)

8:30 AM –
12:00 PM **Session 4 – Controlling Exposures And Prevention**

Prevention of skin exposures is the key to avoiding allergic and irritant contact dermatitis and absorption of toxic chemicals through the skin. Selection of evidenced-based interventions that are effective in preventing skin exposures or a resulting illness were the focus of this session. Whether or not control and prevention are successful has to be studied by proper methods, so the session started with the design of research to study the effectiveness of interventions. Methods of prevention and control range from technical solutions through interventions on behavior to personal protection. These aspects were a part of the final group of talks.

Session Chair: Hans Marquart

Plenary Titles and Speakers:

8:30 AM **Intervention Research**, Linda Goldenhar, MS, PhD, University of Cincinnati, Cincinnati, Ohio, USA ([Abstract](#))

9:05 AM **Work Practices and Behavioral Modifications - Evidence-Based Prevention Programs and Implementation at Workplaces**, Mari-Ann Flyvholm, MSc, PhD, Lone Borg, MSc, PhD and Karen Mygind, MSc Pharm, National Institute of Occupational Health, Copenhagen, Denmark ([Abstract](#))

9:40 AM Introduction of [Posters](#)

10:00 AM Break

10:30 AM **Practical and Cost-Effective Methods for Dermal Exposure Risk Management**, Chris Packham, Enviroderm Services, Evesham, UK ([Abstract](#))

11:05 AM **Selection, Testing, and Effectiveness in the Field of PPE and Gloves**, Reinhard Oppl, MSc, Eurofins GfA (formerly MILJO-CHEMIE), Hamburg, Germany ([Abstract](#))

11:40 AM Introduction of [Posters](#)

Session Planning Committee:

Hans Marquart, Coordinator

Ernie Braue

Mark Boeniger

Mari-Ann Flyvholm

September 10, 2002

2:00 PM – **Session 5 – Developing Policy and Communicating Effectively**
5:30 PM

The goal of this session was to explore the adequacy of government efforts to formulate policies to address chemical exposures of the skin and the mechanisms employed to communicate them to stakeholders and the general public. Presentations described national and international efforts underway in this area, their anticipated benefits, and the approaches being utilized to implement them. A key feature of this session was to comment on the effectiveness of these programs and to identify where improvements might be made. Presentations from representatives of the regulated community were included to illustrate their experiences and perspectives on this issue.

Session Chair: Michael Dellarco

Plenary Titles and Speakers:

2:00 PM **US EPA's Recently Released Superfund Dermal Risk Assessment Guidance: Application and Policy**, Daniel Stralka, PhD, US Environmental Protection Agency, San Francisco, California, USA ([Abstract](#))

2:30 PM **Protecting Workers from Dermal Exposure - the German Experience**, Eva Lechtenberg-Auffarth, PhD and Bruno Orthen, PhD, Federal Institute for Occupational Safety and Health (BAuA), Dortmund, Germany ([Abstract](#))

3:00 PM **Protecting Workers from Dermal Exposure - The**

American Experience, Lyn Penniman, MPH, US Occupational Safety and Health Administration, Washington, DC, USA
([Abstract](#))

3:30 PM Break

4:00 PM **How the Food Quality Protection Act Affects EPA Regulation of Pesticides via the Dermal Route of Exposure**, Elizabeth Doyle, PhD, US Environmental Protection Agency, Washington, DC, USA ([Abstract](#))

4:30 PM **Prevention of Contact Dermatitis by European Legislation**, Carola Lidén, MD, PhD, Dept Occupational and Environmental Dermatology, Stockholm County Council; Karolinska Institutet, Stockholm, Sweden ([Abstract](#))

5:00 PM **Perspectives on Industry Reactions to US Government Policies**, Christine Chaisson, PhD, Chaisson Scientific Advisors, Annandale, Virginia, USA ([Abstract](#))

Posters

Session Planning Committee:

Mike Dellarco, Coordinator
Heinz Ahlers
Lisa Brosseau
Howard Maibach
John McAlinden
Lyn Penniman

September 11, 2002

8:30 AM –
3:00 PM **Five Workshop Breakout Sessions**

Five Concurrent Workshop Sessions covered the same general areas as the five Plenary Sessions:

1) Defining the Problem, Discussion Leader – Boris Lushniak

2) Health Effects and Hazard Identification, Discussion Leader – Frank Gerberick

3) Measuring and Predicting Exposures, Discussion Leader – Elaine Cohen-Hubal

4) Controlling Exposures and Prevention, Discussion Leaders – Mark Boeniger and Mari-Ann Flyvholm

5) Developing Policy and Communicating Effectively, Discussion Leader – John McAlinden

The Workshop discussions focused on specific research and

public health opportunities for decreasing the burden of skin exposures to chemicals in both workplaces and the general environment. What are some of the steps that could be taken now or in the near future by researchers, teachers, occupational hygienists, physicians, employers, workers, site managers and others to effectively anticipate, identify, evaluate and control potentially harmful exposures to chemicals by the dermal route? Questions that each Workshop Session Leader could choose to consider during the discussion were included in the [Workshop Discussion Paper \(Version of 20 August\)](#).

Agenda for each Workshop Session:

8:30 AM Workshop Sessions convene

10:00 AM Break

10:30 AM Workshop Sessions reconvene

12:00 PM Lunch

1:30 PM Workshop Sessions reconvene

3:00 PM Break

3:30 PM -
4:30 PM

Workshop Closing Session

Session Chair – Sidney Soderholm

Each Workshop Session discussion leader or a designee provided a brief overview of their session and highlights of the discussion, focusing on next steps that could be taken effectively to reduce the burden of dermal exposures to chemicals. See the [Workshop Discussion Paper](#) and the [Proceedings](#) for more information. A product of the Workshops will be a document that evolved from the Workshop Discussion Paper based on input of participants. It is still being drafted.

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Posters



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Poster Sessions

Authors of posters 1.1 through 3.12 were asked to attend their posters to answer questions 1:00 -2:00 PM on Monday, September 9. Authors of posters 3.13 through 5.3 were asked to attend their posters 1:00 - 2:00 PM on Tuesday, September 10. The posters were available for viewing throughout the conference. Tables were available at each poster for the exchange of information (poster copies and business cards with requests). Poster authors had an opportunity to sign up during registration for a time to make a 3-minute presentation (maximum of 3 overheads only) during one of the Introduction of Posters periods in the Plenary Sessions.

Poster Session 1: Defining the Problem

1.1 Dermal Hazards in the Workplace: A Survey Assessment of Protection and Exposure, Timothy J. Buckley, PhD, The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD and Daniel Anna, PhD, Millersville University, Department of Industry Technology, Millersville, PA, USA ([Abstract](#))

1.2 Occupational Environment and Skin Diseases in Pesticide Exposed Subjects in Some Tea Farms in Vietnam, K Xuyen, PC Hoi* and PQ Trung*, National Institute of Occupational and Environmental Health and *Ministry of Agricultural and Rural Development, Hanoi, Vietnam ([Abstract](#))

Poster Session 2: Health Effects and Hazard Identification

2.1 Dermal Exposure to Powdered Solids and Aqueous Solutions: Are the Risks Different?, Annette L. Bunge and Eugene E. Ley, Colorado School of Mines, Golden, CO, USA ([Abstract](#))

2.2 A Mathematical Approach for Evaluating Dermal Exposure and Facilitating Assignment of Skin Notations, Chen-Peng Chen, Mark F. Boeniger and Heinz W. Ahlers, National Institute for Occupational Safety and Health, Cincinnati, OH, USA([Abstract](#))

2.3 Use of Real-Time Breath Analysis and PBPK Modeling to Evaluate Dermal Absorption of Aqueous Toluene in Human Volunteers, Karla D.

Thrall, Karl K. Weitz and Angela D. Woodstock, Battelle Pacific Northwest Division, Richland, WA, USA ([Abstract](#))

2.4 Molecular Changes in Skin Following Acute Dermal Exposures to Irritating Chemicals, James N. McDougal, Wright State University School of Medicine, Dayton, OH, USA (Corresponding Author)
Carol M. Garrett, Operational Toxicology (AFRL/HEST), Air Force Research Laboratory, Wright Patterson AFB, OH, USA
James V. Rogers, Operational Toxicology (AFRL/HEST), Air Force Research Laboratory, Wright Patterson AFB, OH, USA ([Abstract](#))

2.5 Dermal Absorption of Vapours: Comparison of In Vivo and In Vitro Data, Kate Jones, Ian Dick, John Cocker and Martin Roff, Health Safety Laboratory, Sheffield, UK ([Abstract](#))

2.6 Factors Affecting Dermal Absorption of Vapours, Kate Jones, John Cocker, Lisa Dodd, Isla Fraser* and Martin Roff, Health Safety Laboratory, Sheffield and *Health and Safety Executive, Liverpool, UK ([Abstract](#))

2.7 Active Ingredients in Sunscreens Act as Topical Penetration Enhancers for the Herbicide 2,4D, Adam R. Pont, University of Nebraska, Lincoln, NE and Anna R. Charron and Rhonda M. Brand, Evanston Northwestern Hospital, Evanston, IL, USA ([Abstract](#))

2.8 Dry Trimellitic Anhydride (TMA) Powder Dermal Sensitization Induces Specific IgE and Airway Responses Following Challenge in Brown Norway Rats, Xing-Dong Zhang, Jeff S. Fedan, Daniel M. Lewis and Paul D. Siegel, National Institute For Occupational Safety and Health, Morgantown, WV, USA ([Abstract](#))

2.9 Biologically-Based Environmental Exposure Levels (BEELs): The Case for 4,4'-Methylene Dianiline (MDA), Shane S. Que Hee, Department of Environmental Health Sciences and the UCLA Center for Occupational and Environmental Health, University of California at Los Angeles, Los Angeles, CA, USA ([Abstract](#))

2.10 One NIOSH Approach to Estimating Dermal Absorption, H. Fred Frasch, PhD and Ana M. Barbero, National Institute for Occupational Safety and Health, Morgantown, WV, USA ([Abstract](#))

2.11 Development of New QSAR Approaches in Occupational Contact Dermatitis, Adam Fedorowicz(1), Hamed Afshari(1,2), Lingyi Zheng(2), Harshinder Singh(1,2) and Eugene Demchuk(1,2), (1)National Institute for Occupational Safety and Health and (2)West Virginia University, Morgantown, WV, USA ([Abstract](#))

2.12 Determination of Caffeine and Its Metabolites in Human Skin Homogenate by High-Performance Liquid Chromatography, Lun-Yi Zang, Jean I. DeHaven and Sidney C. Soderholm, National Institute for Occupational Safety and Health, Morgantown, WV, USA ([Abstract](#))

2.13 Percutaneous Absorption of Neat and Water Solutions of 2-Butoxyethanol in Man, S.Kezic, N. Mohammadi, I. Jakasa, J. Kruse, A.C. Monster and M. Verberk, Coronal Institute of Occupational and Environmental Health, Academic Medical Centre, University of Amsterdam, Amsterdam, The Netherlands ([Abstract](#))

Poster Session 3: Measuring and Predicting Exposures

3.1 Electrospray Ionization Tandem Mass Spectrometry (ESI-MS/MS) Analysis of 1-Bromopropane Mercapturic Acid Metabolites in Urine, Kenneth L. Cheever, Kate L. Marlow, Derek Stinson, Alex W. Teass and D. Gayle DeBord, National Institute for Occupational Safety and Health, Cincinnati, OH, USA ([Abstract](#))

3.2 Development of a Procedure for the Quantification of the Biomarker (2-Methoxyethoxy)Acetic Acid in Human Urine, Clayton B'Hymer, Mary Ann Butler and Kenneth L. Cheever, National Institute for Occupational Safety and Health, Cincinnati, OH, USA ([Abstract](#))

3.3 Worker Exposure Scenarios and Modelling for Biocidal Products, Joop J. van Hemmen, TNO Chemistry, Delft, The Netherlands ([Abstract](#))

3.4 Risk Assessment of Dermal Exposure to Industrial Chemicals, Joop J. van Hemmen, TNO Chemistry, Delft, The Netherlands ([Abstract](#))

3.5 Improved Method to Measure Alkoxyacetic Acid in Urine: A Solid Phase Extraction -Gas Chromatography - Mass Spectrometry Method for 2-Butoxyacetic Acid, Kenneth K. Brown, Kenneth L. Cheever, Mary Ann Butler, Peter B. Shaw and Jeffery L. McLaurin, National Institute for Occupational Safety and Health, Cincinnati, OH, USA ([Abstract](#))

3.6 Measurement of Dermal Exposure to Epoxy Components, Roger Lindahl, Anders Östin, Leif Wiklund, Kåre Eriksson* and Jan-Olof Levin, National Institute for Working Life, SE-907 13 Umeå, Sweden and *University Hospital of Northern Sweden, Umeå, Sweden ([Abstract](#))

3.7 Assessment of Skin Exposure to Permanent Hair Dyes, Marie-Louise Lind, Birgitta Meding, Jan Sollenberg, Jouni Surakka and Anders Boman*, Occupational Dermatology, National Institute for Working Life, Stockholm, Sweden and *Occupational and Environmental Dermatology, Department of Medicine, Karolinska Institutet and Stockholm County Council, Stockholm, Sweden ([Abstract](#))

3.8 Sampling Efficiency of Cotton Gloves When Used for Dermal Exposure Measurements, Martin Roff and Lisa Griffiths, Health and Safety Laboratory, Sheffield, UK ([Abstract](#))

3.9 Mathematical Model for the Disposition of Volatile Compounds on

Skin Following Topical Application, Penpan Saiyasombati and Gerald B. Kasting, University of Cincinnati, Cincinnati, OH, USA ([Abstract](#))

3.10 Qualitative and Quantitative Assessment of Isocyanate Contamination of Workplace Surfaces, Roy J. Rando, ScD, Rachele A. Gibson, MSPH, Zachariah Fridge, Cheol Kwon and Jody Kliebert, Tulane University School of Public Health, New Orleans, LA, USA ([Abstract](#))

3.11 Determination of Keratin Protein in a Tape-Stripped Skin Sample from Jet Fuel Exposed Skin: Standardization of the Tape-Stripping Method, Yi-Chun Evelyn Chao and Leena A. Nylander-French, University of North Carolina, Department of Environmental Sciences and Engineering, School of Public Health, Chapel Hill, NC, USA ([Abstract](#))

3.12 Dermal Exposure Model for Jet Fuel Exposure Using Tape-Stripping Method, Yi-Chun Evelyn Chao and Leena A. Nylander-French, University of North Carolina, Department of Environmental Sciences and Engineering, School of Public Health, Chapel Hill, NC, USA ([Abstract](#))

3.13 Estimating Dermal Exposure to Hazardous Chemicals in Water and Soil, Michael Dellarco, National Center for Environmental Assessment, U.S. Environmental Protection Agency, Washington, DC, USA ([Abstract](#))

3.14 Dermal Exposures to Particles from Smooth and Carpeted Surfaces, Charles Rodes, Jonathan Thornburg and Peter Ashley*, Research Triangle Institute, Research Triangle Park, NC and *US Department of Housing and Urban Development (HUD), Washington, DC, USA ([Abstract](#))

3.15 Development of an Analytical Method to Quantify Dermal Exposure to Hexamethylene Diisocyanate, Chris B. Trent, Leena A. Nylander-French, Louise M. Ball, Avram Gold and Hasan Koc, The University of North Carolina at Chapel Hill, Department of Environmental Sciences and Engineering, Chapel Hill, NC, USA ([Abstract](#))

3.16 Wipe Sampling to Assess Pesticide Exposures on Skin: Preliminary Method Evaluation, Mark F. Boeniger, Marcia Nishioka*, Tania Carreon and Wayne Sanderson, National Institute for Occupational Safety and Health, Cincinnati, OH and *Battelle, Columbus, OH, USA ([Abstract](#))

3.17 Comparison of Three Methods for Determining Removal of Stratum Corneum Using Adhesive Tape Strips, Mark F. Boeniger, National Institute for Occupational Safety and Health, Cincinnati, OH and Leena Nylander-French, University of North Carolina, Department of Environmental Health Sciences and Engineering, School of Public Health, Chapel Hill, NC, USA ([Abstract](#))

Poster Session 4: Controlling Exposures and Prevention

4.1 Problems and Solutions in Practical Dermal Exposure Risk

Assessment, Christopher L. Packham, Enviroderm Services, Evesham, U.K. ([Abstract](#))

4.2 Investigating a Suspected Case of Occupational Skin Disease, Christopher L. Packham, Enviroderm Services, Evesham, U.K. ([Abstract](#))

4.3 Measurement of Dermal Exposure - So What?, Christopher L. Packham, Enviroderm Services, Evesham, U.K. ([Abstract](#))

4.4 Use of Bioengineering Techniques for Skin Health Surveillance, Helen E. Packham, Enviroderm Services, Evesham, U.K. ([Abstract](#))

4.5 Development of Colorimetric Indicators: A New Technique to Determine Glutaraldehyde and Alkaline Glutaraldehyde Contamination, Evanly Vo, National Personal Protective Technology Laboratory, National Institute for Occupational Safety and Health, Morgantown, WV, USA ([Abstract](#))

4.6 Validation Testing of a Solvent Breakthrough Indicator for Use with Chemical Protective Gloves, Thomas D. Klingner, Colormetric Laboratories, Inc., Des Plaines, IL, USA ([Abstract](#))

4.7 Evaluation of High Molecular Weight Solvents for Decontamination of Chemical Protective Gloves, Thomas D. Klingner, Colormetric Laboratories, Inc., Des Plaines, IL, USA ([Abstract](#))

4.8 Hand Contamination and Protection During Dental Work, Anders Boman, G Sandborgh-Englund*, E R ndell, H Andreasson**, S Johnsson and C Lid n, Dept of Occupational and Environmental Dermatology, Stockholm County Council, Stockholm; *Dept of Odontology, Karolinska Institutet, Stockholm and **Dept of Prosthetic Dentistry/Dental Materials Science, Faculty of Odontology, Gothenburg University, Gothenburg, Sweden ([Abstract](#))

4.9 The Routes and Consequences of Internal Contamination of Gloves, Beth Rawson, James Wheeler*, Martin Roff and John Cocker, Health and Safety Laboratory, Sheffield and *Health and Safety Executive, Bootle, Liverpool, U.K. ([Abstract](#))

4.10 A Comprehensive Approach of a Hand Regimen System in Oil Production and Refinery Facilities, Brian Hammond, Jos  Henriquez da Silva Tavares*, Elenor Fendler and Alberto de Abreu Sodr , GOJO Industries, Akron, OH, USA and *Petrobras, Maca , Brazil ([Abstract](#))

4.11 The Impact of a Skin Care Program in a Fiberglass Facility Utilizing Bioengineering Techniques, Brian Hammond, and Eleanor Fendler, PhD., GOJO Industries, Akron, OH, USA ([Abstract](#))

4.12 Thermal Desorption of Solvents Using a Passive Dermal Dosimeter, Linda S. Coyne, SKC Inc., Eighty Four, PA and Tom Klingner, CLI Laboratories, Des Plaines, IL, USA ([Abstract](#))

- 4.13 **Effect of Cycles of Contamination and Decontamination on Chemical Glove Performance**, Nadia S. El-Ayouby, MS, Pengfei Gao, PhD, James T. Wassell, PhD* and Rotha C. Hall*, National Personal Protective Technology Laboratory and *Division of Safety Research, National Institute for Occupational Safety and Health, Morgantown, WV, USA ([Abstract](#))
- 4.14 **An Evaluation of Dermal Exposures from an Engineering Perspective**, Duane Hammond and R. Leroy Mickelsen, National Institute for Occupational Safety and Health, Cincinnati, OH, USA ([Abstract](#))
- 4.15 **Investigation of the Compatibility of a Skin Protection Gel and Natural Rubber Gloves**, Annette zur Muehlen, Andreas Klotz and Brigitte Thoerner, Stockhausen, Krefeld, Germany ([Abstract](#))
- 4.16 **Diphoterine(R) and Hexafluorine(R): New Active Skin/Eye Decontamination Compounds**, Alan H. Hall, TTUHSC-El Paso and Toxicology Consulting and Medical Translating Services, Inc., El Paso, TX, USA and Joel Blomet and Laurence Mathieu, Laboratoire Prevor, Valmondois, France ([Abstract](#))
- 4.17 **Development of a Glove End of Service Life Indicator (ESLI) for Weak Organic and Inorganic Acids**, Evanly Vo, Tom Klingner*, Zhenzhen Zhuang, National Personal Protective Technology Laboratory, National Institute for Occupational Safety and Health, Pittsburgh, PA and *Colormetric Laboratories, Inc., Des Plaines, IL, USA ([Abstract](#))

Poster Session 5: Developing Policy and Communicating Effectively

- 5.1 **Prevention of Nickel Allergy - The EU Nickel Directive and European Standards**, Carola Lidén, Department of Occupational and Environmental Dermatology, Stockholm County Council and Karolinska Institutet, Stockholm, Sweden ([Abstract](#))
- 5.2 **Methods for Analysis of Allergens - A European Standardisation Project**, Carola Lidén, Department of Occupational and Environmental Dermatology, Stockholm County Council and Karolinska Institutet, Stockholm, Sweden; Magnus Bruze and Birgitta Gruvberger, Malmö University Hospital, Malmö, Sweden; Roger Hooper, NiDI, UK; and Ann-Therese Karlberg, Göteborg University, Göteborg, Sweden ([Abstract](#))
- 5.3 **NORA Dermal Exposure Research Program (DERP)**, Sidney C. Soderholm, PhD, National Institute for Occupational Safety and Health, Morgantown, WV, USA ([Abstract](#))

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List of Conference Attendees

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These attendees gave permission to have their contact information included in this list. Click on the name to see their contact information, and use the "Back" button to return to the list. Click on their E-mail address to send a message. This information is believed to be accurate as of September, 2002.

Name	E-mail Address
Heinz Ahlers JD	hha2@cdc.gov
Gary W. Bangs CIH	bangs.gary@epa.gov
Ana Barbero MS	abarbero@cdc.gov
David A. Basketter BSc, DSc, MRCPATH, FIBol	David.Basketter@unilever.com
Joël Blomet	jblomet@prevor.com
Mark Boeniger	mboeniger@cdc.gov
Anders Boman PhD	anders.boman@smd.sll.se
Rhonda Brand PhD	rbrand1@unl.edu
Ernest H. Braue Jr. PhD	ernest.braue@amedd.army.mil
Derk Brouwer PhD	Brouwer@chemie.tno.nl
Kenneth K. Brown	kbr1@cdc.gov
Timothy J. Buckley PhD, CIH	tbuckley@jhsph.edu
Annette L. Bunge PhD	abunge@mines.edu

Christine Chaisson PhD	chaissoninc@erols.com
Evelyn Chao MS	evelyn_chao@unc.edu
Kenneth L. Cheever	klc1@cdc.gov
Chen-Peng Chen PhD	cchen1@cdc.gov
Elaine Cohen-Hubal PhD	Hubal.Elaine@epamail.epa.gov
Michael A. Collins PhD	mike@gilbertinternational.co.uk
Armand A. Coppotelli MS	armand.coppotelli@stockhausen-inc.com
John Corish BSc, MA, PhD	jcorish@tcd.ie
Linda Coyne	skclinda@aol.com
David V. Crawford	crawford.dave@epa.gov
Glen H. Crawford MD	glen.crawford@uphs.upenn.edu
Jean J. DeHaven MS	jdehaven@cdc.gov
Michael Dellarco DrPH	dellarco.mike@epa.gov
Gene Demchuk PhD	eed5@cdc.gov
Michael Dolan	dolanm@gojo.com
Carl J. Elskamp	carl.elskamp@osha.gov
Patricia G. Engasser MD	engasser@yahoo.com
Mari-Ann Flyvholm M.Sc., PhD	maf@ami.dk
H. Frederick Frasch PhD	hbf9@cdc.gov
Pengfei Gao PhD, CIH	pgao@cdc.gov
G. Frank Gerberick PhD	gerberick.gf@pg.com
Rachele A. Gibson MSPH	rgibson@tulane.edu

Linda M. Goldenhar MS, PhD	linda.goldenhar@uc.edu
Gary L. Grove PhD	garygrove@comcast.net
Alan H. Hall MD	ahall@elp.rr.com
Brian Hammond	HammondB@GOJO.COM
Duane R. Hammond	dhammond@cdc.gov
Sosuke Hanai	shanai@jcia-net.or.jp
Cynthia J. Hines	chines@cdc.gov
Matti J. Jantunen PhD	matti.jantunen@ktl.fi
Neil B. Jurinski PhD	neil@nuchemco.com
Julie B. Kacergis MHS	KacergisJ@si.edu
Gerald B. Kasting PhD	gerald.kasting@uc.edu
Deborah E. Keil PhD, MT (ASCP)	dpk5@cdc.gov
Sanja Kezic PhD	s.kezic@amc.uva.nl
John C. Kissel PhD, PE	jkissel@u.washington.edu
Thomas D. Klingner	tklingner@clilabs.com
M. Richard Lawrence	lawrence@osha.gov
Carola Lidén MD, PhD, Professor	carola.liden@smd.sll.se
Marie-Louise Lind	marie-louise.lind@niwl.se
Roger Lindahl PhD	roger.lindahl@niwl.se
Boris D. Lushniak MD, MPH	blushniak@cdc.gov
Dave Mackay	mackayd@gojo.com
Howard I. Maibach MD	himjlm@itsa.ucsf.edu
Hans Marquart	Marquart@chemie.tno.nl
Dino A. Mattorano MS	Dmattorano@cdc.gov

Brian A. Mayes PhD	mayes@crd.ge.com
John J. McAlinden	john.mcalinden@hse.gsi.gov.uk
James N. McDougal PhD	james.mcdougal@wright.edu
R. Leroy Mickelsen	lmickelsen@cdc.gov
Gary J. Mihlan PhD, CIH	gary.mihlan@bayercropscience.com
Jesper B. Nielsen PhD	jbnielsen@health.sdu.dk
Nancy B. Nilsen	nbn9@cdc.gov
Rosemary L. Nixon MD	rnixon@occderm.asn.au
Leena A. Nylander-French PhD, CIH	Leena_french@unc.edu
Reinhard Oppl MSc	Reinhard.Oppl@eurofins.dk
Bruno Orthen PhD	orthen.bruno@baua.bund.de
Christopher L. Packham	chris.packham@enviroderm.co.uk
Helen Packham	helen.packham@enviroderm.co.uk
Lyn Penniman MPH	lyn.penniman@osha.gov
Shane S. Que Hee PhD	squehee@ucla.edu
Alastair Robertson BSc, PhD	alastair.robertson@IOMHQ.org.uk
Charles E. Rodes PhD	charlesr@rti.org
Martin Roff	martin.roff@hsl.gov.uk
Jennifer A. Sahmel MPH, CIH	sahmel.jennifer@epa.gov
Lee M. Sanderson PhD	lsanderson@cdc.gov
John Schaum	Schaum.John@epa.gov
Sean Semple PhD	sean.semple@abdn.ac.uk
Sidney C. Soderholm	

<u>PhD</u>	ssoderholm@cdc.gov
<u>Robert C. Spiker Jr.</u> <u>PhD, CIH</u>	spiker@compusnet.com
<u>Daniel Stralka PhD</u>	stralka.daniel@epa.gov
<u>Jouni A. Surakka PhD,</u> <u>MSc</u>	jouni.surakka@av.se
<u>Päivikki Susitaival MD,</u> <u>PhD</u>	paivikki.susitaival@pkshp.fi
<u>Aaron L. Sussell MPH</u>	asussell@umich.edu
<u>Marie Haring</u> <u>Sweeney</u>	msweeney@cdc.gov
<u>James S. Taylor MD</u>	taylorj@ccf.org
<u>Gail Todd PhD</u>	N/A
<u>Barbara Toeppen-</u> <u>Sprigg MD, MPH</u>	barbara.toeppensprigg@goodyear.com
<u>Chris B. Trent</u>	ctrent@email.unc.edu
<u>Stephanie D. Watts</u> <u>BS, MS</u>	wattssd@ih.navy.mil
<u>Vernon Wilkes CIH</u>	wilkesv@hq.med.va.gov
<u>Faith Williams PhD</u>	f.m.williams@newcastle.ac.uk
<u>Khuc Xuyen MD, PhD</u>	kxuyen@fpt.vn
<u>Long-Xing Yuan</u>	lx1@cdc.gov
<u>Lun-Yi Zang PhD</u>	laz7@cdc.gov
<u>Robert P. Zendzian</u> <u>PhD</u>	zendzian.robert@epa.gov
<u>Xing-Dong Zhang</u>	xzhang@cdc.gov

Contact Information

Heinz Ahlers JD
hha2@cdc.gov
 NIOSH
 Cincinnati, OH USA
 Phone: 513-533-8407

Fax: 513-533-8230

Gary W. Bangs CIH
bangs.gary@epa.gov
US EPA
Washington, DC USA
Phone: 703-305-7606
Fax: 703-305-5147

Ana Barbero MS
abarbero@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-6347
Fax: 304-285-6041

David A. Basketter BSc, DSc, MRCPPath, FIBol
David.Basketter@unilever.com
Unilever Research
Bedford, United Kingdom
Phone: 44-1234-264776
Fax: 44-1234-264744

Joël Blomet
jblomet@prevor.com
Prevor
Valmondois, France
Phone: 33-1-30-34-7676
Fax: 33-1-30-34-7670

Mark Boeniger
mboeniger@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4170
Fax: 513-841-4483

Anders Boman PhD
anders.boman@smd.sll.se
Karolinska Institutet and Stockholm County Council
Stockholm, Sweden
Phone: 45-8-517-744-43
Fax: 46-8-3444445

Rhonda Brand PhD
rbrand1@unl.edu
Evanston Northwestern Healthcare Research Institute
Evanston, IL USA
Phone: 847-570-7688
Fax: 847-570-8011

Ernest H. Braue Jr. PhD
ernest.braue@amedd.army.mil
US Army Medical Research Institute of Chemical Defense
Aberdeen Proving Ground, MD USA
Phone: 410-436-2848
Fax: 410-436-1132

Derk Brouwer PhD
Brouwer@chemie.tno.nl
TNO Chemistry
Zeist, Netherlands
Phone: 31-30-69-44-914
Fax: 31-30-69-44-926

Kenneth K. Brown
krb1@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4304
Fax: 513-841-4500

Timothy J. Buckley PhD, CIH
tbuckley@jhsph.edu
Johns Hopkins Bloomberg School of Public Health
Baltimore, MD USA
Phone: 410-614-5750
Fax: 410-955-9334

Annette L. Bunge PhD
abunge@mines.edu
Colorado School of Mines
Golden, CO USA
Phone: 303-273-3722
Fax: 303-273-3730

Christine Chaisson PhD
chaissoninc@erols.com
Chaisson Scientific Advisors
Annandale, VA USA
Phone: 703-978-6496
Fax: 703-978-6962

Evelyn Chao MS
evelyn_chao@unc.edu
University of North Carolina
Chapel Hill, NC USA
Phone: 919-843-7867
Fax: 919-966-4711

Kenneth L. Cheever
klc1@cdc.gov

NIOSH
Cincinnati, OH USA
Phone: 513-533-8193
Fax: 513-533-8138

Chen-Peng Chen PhD
cchen1@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-533-8540
Fax: 513-533-8230

Elaine Cohen-Hubal PhD
Hubal.Elaine@epamail.epa.gov
US Environmental Protection Agency
Research Triangle Park, NC USA
Phone: 919-541-4077
Fax: 919-541-0905

Michael A. Collins PhD
mike@gilbertinternational.co.uk
Gilbert International Limited
Manchester, England
Phone: 44-0-161-236-3774
Fax: 44-0-161-236-7855

Armand A. Coppotelli MS
armand.coppotelli@stockhausen-inc.com
Stockhausen, Inc.
Greensboro, NC USA
Phone: 800-843-3817 x5008
Fax: 610-891-8946

John Corish BSc, MA, PhD
jcorish@tcd.ie
University of Dublin, Trinity College
Dublin, Ireland
Phone: 353-1-6081776
Fax: 353-1-6712526

Linda Coyne
skclinda@aol.com
SKC Inc.
Eighty Four, PA USA
Phone: 724-941-9704 x3020

David V. Crawford
crawford.dave@epa.gov
US Environmental Protection Agency
Washington, DC USA
Phone: 703-603-8891

Fax: 703-603-9133

Glen H. Crawford MD
glen.crawford@uphs.upenn.edu
University of Pennsylvania
Philadelphia, PA USA
Phone: 215-662-2737

Jean J. DeHaven MS
jdehaven@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-5845
Fax: 304-285-6041

Michael Dellarco DrPH
dellarco.mike@epa.gov
US Environmental Protection Agency
Washington, DC USA
Phone: 202-564-3239
Fax: 202-565-0079

Gene Demchuk PhD
eed5@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-6034
Fax: 304-285-6041

Michael Dolan
dolanm@gojo.com
GoJo Industries, Inc.
Akron, OH USA
Phone: 330-255-6294, 6291
Fax: 330-255-6114

Carl J. Elskamp
carl.elskamp@osha.gov
OSHA
Salt Lake City, UT USA
Phone: 801-524-7918
Fax: 801-524-6660

Patricia G. Engasser MD
engasser@yahoo.com
Phone: 650-322-6498
Fax: 650-322-6494

Mari-Ann Flyvholm M.Sc., PhD
maf@ami.dk
National Institute of Occupational Health, Denmark

Copenhagen, Denmark
Phone: +45-39165280
Fax: +45-39165201

H. Frederick Frasch PhD
hbf9@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-5755
Fax: 304-285-6041

Pengfei Gao PhD, CIH
pgao@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-5805
Fax: 304-285-6030

G. Frank Gerberick PhD
gerberick.gf@pg.com
Procter & Gamble Company
Cincinnati, OH USA
Phone: 513-627-2909
Fax: 513-627-0400

Rachele A. Gibson MSPH
rgibson@tulane.edu
Tulane University
New Orleans, LA USA
Phone: 504-586-3846
Fax: 504-587-2144

Linda M. Goldenhar MS, PhD
linda.goldenhar@uc.edu
University of Cincinnati
Cincinnati, OH USA
Phone: 513-558-6936
Fax: 513-558-2744

Gary L. Grove PhD
garygrove@comcast.net
CyberDerm, Inc.
Media, PA USA
Phone: 610-558-4777
Fax: 610-544-6305

Alan H. Hall MD
ahall@elp.rr.com
Temts, Inc.
El Paso, TX USA
Phone: 915-856-9396

Fax: 915-856-9956

Brian Hammond
HammondB@GOJO.COM
GoJo Industries, Inc.
Akron, OH USA
Phone: 330-255-6705, 6291
Fax: 330-255-6114

Duane R. Hammond
dhammond@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4286
Fax: 513-841-4506

Sosuke Hanai
shanai@jcia-net.or.jp
Japan Chemical Industry Association
Chiyoda, Tokyo, Japan
Phone: +81-3-3580-0759
Fax: +81-3-3580-1383

Cynthia J. Hines
chines@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4453
Fax: 513-841-4486

Matti J. Jantunen PhD
matti.jantunen@ktl.fi
KTL-Environmental Health
Kuopio, Finland
Phone: 358-17-201-340
Fax: 358-17-201-184

Neil B. Jurinski PhD
neil@nuchemco.com
NuChemCo, Inc
Burke, VA USA
Phone: 703-503-6683
Fax: 709-978-0642

Julie B. Kacergis MHS
KacergisJ@si.edu
Smithsonian Institution
Washington, DC USA
Phone: 202-275-0734
Fax: 202-275-0746

Gerald B. Kasting PhD
gerald.kasting@uc.edu
University of Cincinnati College of Pharmacy
Cincinnati, OH USA
Phone: 513-558-1817
Fax: 513-558-0978

Deborah E. Keil PhD, MT (ASCP)
dpk5@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-6234
Fax: 304-285-6075

Sanja Kezic PhD
s.kezic@amc.uva.nl
Academic Medical Center
Amsterdam, The Netherlands
Phone: 31-20-5665321
Fax: 31-20-6977161

John C. Kissel PhD, PE
jkissel@u.washington.edu
University of Washington
Seattle, WA USA
Phone: 206-543-5111
Fax: 206-543-8123

Thomas D. Klingner
tklingner@clilabs.com
Colormetric Laboratories, Inc.
Des Plaines, IL USA
Phone: 847-803-3737
Fax: 847-803-3739

M. Richard Lawrence
richard.lawrence@osha.gov
OSHA
Salt Lake City, UT USA
Phone: 801-524-7921
Fax: 801-524-6660

Carola Lidén MD, PhD, Professor
carola.liden@smd.sll.se
Karolinska Institutet and Stockholm County Council
Stockholm, Sweden
Phone: 46-8-517-736-17
Fax: 46-8-34-44-45

Marie-Louise Lind
marie-louise.lind@niwl.se

National Institute for Working Life
Stockholm, Sweden
Phone: 46-8-7309539
Fax: 46-8-7309892

Roger Lindahl PhD
roger.lindahl@niwl.se
National Insititute for Working Life
Umea, Sweden
Phone: +46-090-17-60-52
Fax: +46-090-17-61-23

Boris D. Lushniak MD, MPH
blushniak@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 513-841-4503
Fax: 513-841-4483

Dave Mackay
mackayd@gojo.com
GoJo Ind.
Akron, OH USA
Phone: 330-255-6587
Fax: 330-255-6110

Howard I. Maibach MD
himjlm@itsa.ucsf.edu
Univ of CA, San Francisco
San Francisco, CA USA
Phone: 415-476-2468
Fax: 415-753-5304

Hans Marquart
Marquart@chemie.tno.nl
TNO Chemistry
Zeist, Netherlands
Phone: 31-30-6944733
Fax: 31-30-6944926

Dino A. Mattorano MS
Dmattorano@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4259
Fax: 513-458-7147

Brian A. Mayes PhD
mayes@crd.ge.com
General Electric Global Research Center
Schenectady, NY USA

Phone: 518-387-7191
Fax: 518-387-7611

John J. McAlinden
john.mcalinden@hse.gsi.gov.uk
Health & Safety Executive
Bootle, United Kingdom
Phone: 0151-951-4525
Fax: 0151-951-3595

James N. McDougal PhD
james.mcdougal@wright.edu
Wright State University School of Medicine
Dayton, OH USA
Phone: 937-775-3697
Fax: 937-775-7221

R. Leroy Mickelsen
lmickelsen@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4380
Fax: 513-841-4506

Gary J. Mihlan PhD, CIH
gary.mihlan@bayercropscience.com
Bayer Cropscience
Kansas City, MO USA
Phone: 816-242-2974
Fax: 816-242-2840

Jesper B. Nielson PhD
jbnielsen@health.sdu.dk
University of Southern Denmark
Odense, Denmark
Phone: 45-65503764
Fax: 45-6591458

Nancy B. Nilsen
nbn9@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-841-4276
Fax: 513-841-4486

Rosemary L. Nixon MD
rnixon@occderm.asn.au
Occupational Dermatology Research and Education Centre
Carlton, South Victoria, Australia
Phone: 613 9639 9633
Fax: 613 9639 9644

Leena A. Nylander-French PhD, CIH
Leena_french@unc.edu
University of North Carolina at Chapel Hill
Chapel Hill, NC USA
Phone: 919-966-3826
Fax: 919-966-4711

Reinhard Oppl MSc
Reinhard.Oppl@eurofins.dk
Eurofins Danmark
Hamburg, Germany
Phone: 49-40-30086-226
Fax: 49-40-30086-216

Bruno Orthen PhD
orthen.bruno@baua.bund.de
Federal Institute of Occupational Safety and Health
Dortmund, Germany
Phone: 49-231-9071-574
Fax: 49-231-9071-611

Christopher L. Packham
chris.packham@enviroderm.co.uk
EnviroDerm Services
Evesham, United Kingdom
Phone: 44-1386-832-311
Fax: 44-1386-830-163

Helen Packham
helen.packham@enviroderm.co.uk
EnviroDerm Services
Evesham, United Kingdom
Phone: 44-1386-832311
Fax: 44-1386-830163

Lyn Penniman MPH
lyn.penniman@osha.gov
Occupational Safety & Health Administration
Washington, DC USA
Phone: 202-693-2282
Fax: 202-693-1678

Shane S. Que Hee PhD
squehee@ucla.edu
University of California at Los Angeles
Los Angeles, CA USA
Phone: 310-206-7388
Fax: 310-794-2106

Alastair Robertson BSc, PhD
alastair.robertson@IOMHQ.org.uk

Institute for Occupational Medicine
Edinburgh, Scotland
Phone: 44-131-667-5131
Fax: 44-131-667-0136

Charles E. Rodes PhD
charlesr@rti.org
Research Triangle Institute
Research Triangle Park, NC USA
Phone: 919-541-6749
Fax: 919-541-6936

Martin Roff
martin.roff@hsl.gov.uk
Health and Safety Laboratory
Sheffield, United Kingdom
Phone: 44-114-289-2498
Fax: 44-114-289-2732

Jennifer A. Sahmel MPH, CIH
sahmel.jennifer@epa.gov
US Environmental Protection Agency
Washington, DC USA
Phone: 202-564-8524
Fax: 202-564-8528

Lee M. Sanderson PhD
lsanderson@cdc.gov
NIOSH
Atlanta, GA USA
Phone: 404-498-2546
Fax: 404-498-2571

John Schaum
Schaum.John@epa.gov
US Environmental Protection Agency
Washington, DC USA
Phone: 202-564-3237
Fax: 202-565-0077

Sean Semple PhD
sean.semple@abdn.ac.uk
University of Aberdeen & Institute of Occupational Medicine
Edinburgh, United Kingdom
Phone: 44-131-667-5131
Fax: 44-131-667-0136

Sidney C. Soderholm PhD
ssoderholm@cdc.gov
NIOSH
Morgantown, WV USA

Phone: 304-285-6027
Fax: 304-285-6041

Robert C. Spiker Jr. PhD, CIH
spiker@compusnet.com
Poolesville, MD USA
Phone: 301-349-5062
Fax: 301-349-5062

Daniel Stralka PhD
stralka.daniel@epa.gov
US Environmental Protection Agency
San Francisco, CA USA
Phone: 415-972-3048
Fax: 415-947-3518

Jouni A. Surakka PhD, MSc
jouni.surakka@av.se
Swedish Work Environment Agency (SWEA)
Solna, Sweden
Phone: 46-8-730-9255
Fax: 46-8-730-1967

Päivikki Susitaival MD, PhD
paivikki.susitaival@pkshp.fi
North Karelia Central Hospital
Joensuu, Finland
Phone: 358-13-1713201
Fax: 358-13-1713206

Aaron L. Sussell MPH
asussell@umich.edu
NIOSH
Cincinnati, OH USA
Phone: 513-841-4374
Fax: 513-458-7147

Marie Haring Sweeney
msweeney@cdc.gov
NIOSH
Cincinnati, OH USA
Phone: 513-533-8339
Fax: 513-533-8230

James S. Taylor MD
taylorj@ccf.org
Cleveland Clinic
Cleveland, OH USA
Phone: 216-444-5723
Fax: 216-445-6365

Gail Todd PhD
University of Capetown
Observatory, South Africa
Phone: 27-21-4043376
Fax: 27-21-4478232

Barbara Toeppen-Sprigg MD, MPH
barbara.toeppensprigg@goodyear.com
Goodyear Tire & Rubber Company
Akron, OH USA
Phone: 330-796-9295
Fax: 330-796-3183

Chris B. Trent
ctrent@email.unc.edu
University of North Carolina
Chapel Hill, NC USA
Phone: 919-843-7867
Fax: 919-966-4711

Stephanie D. Watts BS, MS
wattssd@ih.navy.mil
National Naval Medical Center
Indian Head, MD USA
Phone: 301-744-4910
Fax: 301-744-6542

Vernon Wilkes CIH
wilkesv@hq.med.va.gov
Veterans Health Admin. - 10NB
Washington, DC USA
Phone: 202-273-5814
Fax: 202-273-6298

Faith Williams PhD
f.m.williams@newcastle.ac.uk
Univ of Newcastle upon Tyne
Newcastle upon Tyne, United Kingdom
Phone: 44-191-222-7255
Fax: 44-191-222-6442

Khuc Xuyen MD, PhD
kxuyen@fpt.vn
National Institute of Occupational and Environmental Health
Hanoi, Vietnam
Phone: 84-4-9714361
Fax: 84-4-8212894

Long-Xing Yuan
lx1@cdc.gov
NIOSH

Morgantown, WV USA
Phone: 304-285-5845
Fax: 304-285-6041

Lun-Yi Zang PhD
laz7@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-6301
Fax: 304-285-6041

Robert P. Zendzian PhD
zendzian.robert@epa.gov
Environmental Protection Agency
Washington, DC USA
Phone: 703-305-5495
Fax: 703-305-5147

Xing-Dong Zhang
xzhang@cdc.gov
NIOSH
Morgantown, WV USA
Phone: 304-285-6045
Fax: 304-285-6126